TrueForce - LED HID HPL

TForce LED HPL ND 60-42W E27 840

Philips TrueForce LED lamps provide an easy LED solution with a fast payback to replace High-Intensity Discharge (HID) and High Pressure Sodium (SON) lamps. These post-top lamps bring the energy efficiency and long lifetime benefits of LED to HID replacement, delivering instant savings for a low initial investment. With the right lamp size and light distribution, customers can easily retrofit TrueForce LED lamps into their existing HPL and SON system, thereby enhancing the light quality with LED HID, without having to change the fixtures or sacrifice the light effect.

Warnings and Safety

- Installation should always be performed by a qualified electrician or installer. Use the installation guide for instructions
- Link to Ballast – igniter compatibility list https://www.assets.signify.com/is/content/Signify/Assets/philips-lighting/global/HIDLED-EU-compatibility-list-professional.pdf

Product data

General Information	
Cap-Base	E27
Nominal lifetime	50,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere
CE mark	Yes
EU RoHS compliant	Yes

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	360 degree(s)
Luminous Flux	6,000 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	142 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	1.6
Photobiological safety according to EN 62471	RG1

Operating and Electrical	
Line Frequency	50 to 60 Hz

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Input Frequency	50 to 60 Hz
Power Consumption	42 W
Lamp Current (Nom)	186 mA
Starting Time (Nom)	0.45 s
Warm-up time to 60% light	0.45 s
Power Factor (Fraction)	0.95
Voltage (Nom)	220-240 V
Inrush current at mains	6.3
Max. lamp no. on MCB B type 10A - Mains	30
Max. lamp no. on MCB B type 10A – EM ballast without Comp. Cap.	30
Max. lamp no. on MCB B type 10A – EM ballast with Comp. Cap.	7
Max. lamp no. on MCB B type 16A - Mains	48
Max. lamp no. on MCB B type 16A – EM ballast without Comp. Cap.	48
Max. lamp no. on MCB B type 16A – EM ballast with Comp. Cap.	11
Ballast Compatibility	EM/Mains

Temperature

Ambient temperature range	-30 to +45 °C
T-Case Maximum (Nom)	65 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Clear
Bulb Shape	Others

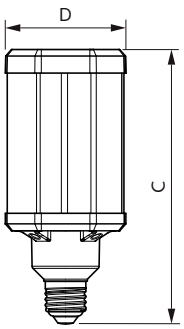
Approval and Application

Energy Efficiency Class	D
Energy Consumption kWh/1000 h	42 kWh
EPREL Registration Number	403604

Product Data

Order product name	TForce LED HPL ND 60-42W E27 840
Full product name	TForce LED HPL ND 60-42W E27 840
Full product code	871869963824500
Order code	929002006602
Material Nr. (12NC)	929002006602
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699638245
Numerator - Packs per outer box	6
EAN/UPC - Case	8718699638252

Dimensional drawing



Product	D	C
TForce LED HPL ND 60-42W E27 840	84 mm	178 mm

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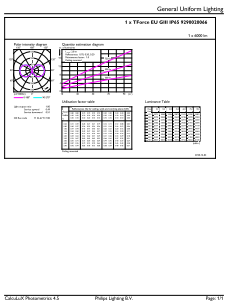
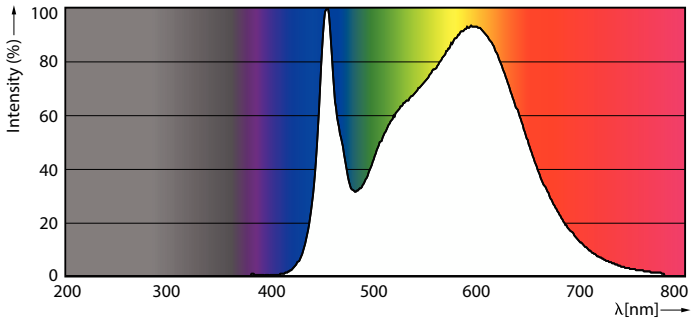
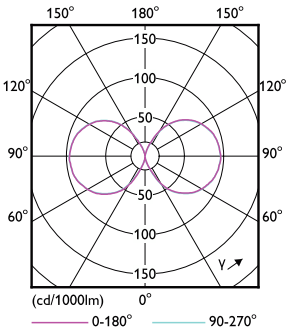
Photometric data



General uniform lighting - TForce LED HPL ND 60-42W E27 840

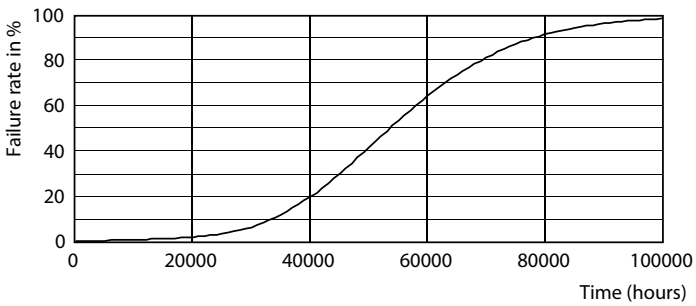


Spectral Power Distribution Colour - TForce LED HPL ND 60-42W E27 840

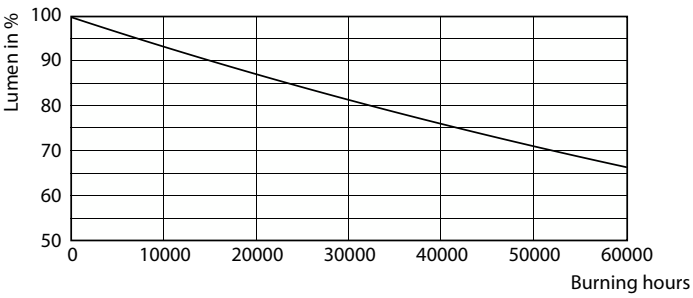


Light Distribution Diagram - TForce LED HPL ND 60-42W E27 840

Lifetime



Life Expectancy Diagram - TForce LED HPL ND 60-42W E27 840



Lumen Maintenance Diagram - TForce LED HPL ND 60-42W E27 840

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